### THE DODGE CITY TIMES.

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N. B. KLAINE, Editor and Publisher.

### IRRIGATION SYSTEMS OF DIF-FERENT COUNTRIES.

It has long been evident that the earlier stimates of the productive capacity of the trans-Missiscippi region were fallacious, ignoring important facts and principles wh are now coming into general notice. The errors resulted from the hasty generalizations of limited farming experience in the older States, applied to new and imperfectly understood conditions of soil, climate, topography and chorography. In Dr. Hayden's report of the late geological survey Wyoming Territory, Professor Cyrus Thomas, whose special function was the observation of the agricultural character of that region, gives the following general estimate:

Startling as the statement may appear to thos be found rich in all the primary elements recessary to the production of oseful crops of some kind. Without water, as a matter of course, it cannot be made to yield, and the erops produced will wary with the climate; but these facts do not a feet the position I take is regard to the tive fertility of the soil,

In studying the agricultural capacity of this region, this writer cays it is "necessary to lay saide, to a great extent, all our ideas of agriculture based upon experience in the States." He finds not only climatic and topographical peculiarities, but also "therpetric and hydrometric conditions bear-

Hence, he argues, the criteria by which Hence, he argues, the criteria by which we jurge of the fertility and productiveness of the soil, and of its adaptation to given products, except, perhaps, the strictly chemical test) do not hold good here. The pale appearance of the soil, the barren look and atunded growth of a spot, are by no means conclusive evidence of its sterility, for the application of water may show it to be rich in vegetable force. Plants which are considered as incompatible it, other sections are here found growing side by side, while oth-ers usually associated are here never, or but ers usually associated are here never, or but seldom, found together. Even the constanta-latitude and elevation—cannot always be taken as true indices of temperature and vegetable life, on account of strong counteracting local

The grand fertilizing element that is to unlock the latent resources of productive power throughout this region is water. Among a large number of instances of its successful application, Mr. Thomas etstes that the little valley of the upper Arkansas "nestling high among the snow-covered granite peaks of the Rocky Mountains," and "covered with the rough local drift from the betren metamorphic peaks around it," yields rich crops of cereals, potatoes, etc. The foscil-bearing deposits in the Bridger Basin, on secount of their worn, washed, and barren appearance, have been compared with the Manualses Terras of Dakots, and have generally been considered by travelerans utterly worthless to an agricultural point of view; yet the productive farms slong Smits's Fork will convince the most incredulous of the error of this opinion." All the hardier year. etables grow along the tributaries of Wind river. The garrison at Fort Saunders produce their own vegetables in abundance or Thomas jurther states that "prolonged experiments have shown that even aprts so thickly frosted over with alkaline deposits as to destroy vegetable and animal live can be rendered fertile and made to produce abundant crops." As a final illustration, he refers to the successful cultivation issugurated by the skilled and patient industry of the Mormons among the drifting sands and basaltic bills of the Rio Virgin.

Pace of this character might be multi-plied to show that the mountain regions west of the Missimippi, with artificial irriga-

fall, may yet become the sphere of a unique and productive agriculture. The question of fertility, then, resolves itself into one of capacity for irrigation. Where facilities for the easy application of water exist, local enterprise, with a trifling outlay of capital and labor, has already redeemed large areas till intely condemned as hopeless deserts. In other localities, however, the elements of the problem may not be so readily discovered. A wider range of facts and principles must be combined with professional engineering science and skill, in order to devise and execute a general system of irrigation Some of the elements of this investigation are accumulating in books and periodicals constantly issuing from the press, in which different portions of the trans-Mississippi region are illustrated. But a systematic agricultural survey alone can reveal the fundimental conditions of such a general system. Many years ago the enlightened policy of the Government projected an extensive and claborate system of surveys of this region, for the purpose of testing the fensibility of trans-continental railways. The interests involved in productive agriculture are at less equal in importance to the commercial considerations which prompted the Pacific railways of what they greatly a considerations. The expenditures of a tithe of what they greatly a property to be sold as commanded by the said form of what they greatly a property to be sold as commanded by the said order of said. scarting as the statement may appear to more who have awapt across the continent atong the barren-looking track of the Union Pacific rail-road explorations. The expenditures of a result to the same that the really superoductive; that wherever there is soil, if water can be applied to it, it will be found to the barren regions with reference to their agricultural resources, and especially their capacity for irrigation, would especially their capacity for irrigation, would reference to their agricultural resources, and especially their capacity for irrigation, would be justified by results no less valuable to civilization. The admirable reports of the geological reconnaisance of a portion of this geological reconnaisance of a portion of this associates, show that very great results the process against the stages due from the A. T. & S. F. & R. Co. and that said cause this associates, show that very great results the process against his wages due from the A. T. & S. F. & R. Co. and that said cause this associates, show that very great results are the process against his wages due from the A. T. & S. F. & R. Co. and that said cause this associates, show that very great results are the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due from the A. T. & S. F. & R. Co. and that said cause the process against his wages due fr may be secured by the judicious expenditure of a small sum of money. It is not to be expected, however, that the tide of im migration will await the slow movements of Government. The process of irrigation will be applied by private enterprise to particolar localities, as the wants of increasing seting no such relations to vegetation there as tlements demands, and results that might be readily and cheaply arrived at by a prelimmary survey, will finally be demonstrated in a series of disastrons experiments, such as marked the earlier history of mining industry in the same regions.

(To be continued.)

Mrs. A. L. Robbins and Mrs. Mullendere have purchased the stock of MILLINERY GOODS of Mrs. L. K. Meintyre, and have removed the same to the building opposite the signal office, where they will be pleased to meet customers. Dress making also carried on.

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Notice is hereby given that the following named settler has field notice of her intention to make final proof in support of her claim, and that said proof will be made before the Cierk of District Court, Ford county, Kansas, at the county seat, on Monday, December 25th., 1882,

county seat, on Monday, December Edn., 1982, Viz. Van. MARTIN, widow of John B. Mar-tin and administrating of his estate, homestead entry No. 430, for the Southeast qur see 24 twp 36 3 26 W.

36 S 26 W. She names the following witnesses to prove her continuous residence upon and cultivation of said land, vir. H. M. Reverley, N. B. Kinton, H. P. Niess, R. F. Adams, all of Dodge City P. O., Ford county Kas.
C. A. MORRIS, Register.

### \*HERIFF'S SALE,

STATE OF KANSAS. | ss. Joel Spor

Joel Stone,

"No.

Emil Heinig and Augusta Heinig.

BY VIRTUE OF AN ORDER OF SALE to
the District Court of the state of Kaneaa, sitting
in and for Ford county, in said with, if will, on
THE 7th DAY OF FERRUARY A. D., 1881.

T. F. Leidigh,

Attest: H. M. CLARK, sustice of the Pence

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